ABSTRACT

In a semiconductor integrated circuit of the present invention, the main circuit 2 includes MOS transistors in which the source and the substrate are separated from each other. The substrate potential control circuit 1 controls the substrate potential of the MOS transistors of the main circuit 2 so that the actual saturation current value of the MOS transistors of the main circuit 2 is equal to the target saturation current value Ids under the operating power supply voltage Vdd of the main circuit 2. Therefore, it is possible to suppress variations in the operation speed even if the operating power supply voltage of the semiconductor integrated circuit is reduced.

5